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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,466	01/06/2004	Jae-Ryong Park	1594.1321	2366
21171	7590	08/23/2007		
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER PATEL, RITA RAMESH	
			ART UNIT 1746	PAPER NUMBER
			MAIL DATE 08/23/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<p align="center"><b>Office Action Summary</b></p>	<p>Application No.</p> <p align="center">10/751,466</p>	<p>Applicant(s)</p> <p align="center">PARK ET AL.</p>	
	<p>Examiner</p> <p align="center">Rita R. Patel</p>	<p>Art Unit</p> <p align="center">1746</p>	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 May 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) 23-37 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                      |                                                                   |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____                                                          | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Election/Restrictions***

This application contains claims 23-27 are drawn to an invention nonelected with traverse in the reply filed on 2/6/07. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

### ***Claim Objections***

Objection over claim 21 has been overcome due to Applicant's amendment to the claim filed on 5/29/07.

### ***Response to Applicant's Arguments / Amendments***

This Office Action is responsive to the amendment filed on 5/29/07. Claims 1-27 are pending. Claims 23-27 have been withdrawn. Claims 1, 11-12, and 21 have been amended. Applicant's arguments have been considered, but are not persuasive. Thus, claims 1-22 are finally rejected for the reasons of record.

Firstly, in response to Applicant's remarks filed on 5/29/07, regarding the 102(b) rejections it is stated "Applicant respectfully submits that "an exhaust hose" [in Hashiba reference] is not comparable to a "drain hose" [in Applicant's claims]". However, Applicant fails to support this statement or provide reasons why the exhaust hose in Hashiba does not read on Applicant's claims. It is well settled that the intended use of a

claimed apparatus is not germane to the issue of the patentability of the claimed structure. If the prior art structure is capable of performing the claimed use then it meets the claim. *In re Casey*, 152 USPQ 235, 238 (CCPA 1967); *In re Otto*, 136 USPA 459 (CPA 1963). The drain hose of Hashiba is fully capable of performing Applicant's claimed use of a drain hose. Moreover, Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant further submits that the exhaust hose 95 of Hashiba is not adjacent to the opening 43 of the drum 42 of Hashiba; however, the Examiner maintains their position that the exhaust hose is adjacent to the opening of the drum in Hashiba since they are located proximally next to each other. Two objects that are adjacent to each other are known to be next to and/or proximally near one another. Here is a definition of the term "adjacent": not distant: NEARBY (adjacent. (2007). In *Merriam-Webster Dictionary*. Retrieved August 20, 2007, from <http://mw1.merriam-webster.com/dictionary/adjacent>).

Next, Applicant argues that Hashiba also fails to discuss "an internal surface of the rotary drum being inclined relative to the rotating axis of the rotary drum at a predetermined second angle of inclination so as to guide the water to the drain hole, prior to discharging the water from the rotary drum to an outside of the rotary drum through the drain hole". But again, Applicant has failed to provide any supporting arguments for this statement; this statement is merely a regurgitation of the claim.

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Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. The Examiner maintains their position that that the rotary drum of the Hashiba reference is positioned at an incline, and thus water is guided towards the drain hole by gravity.

Finally, under Applicant's remarks regarding the 103(a) rejections, these comments are solely based on the 102(b) comments, which have been wholly addressed above and are thus considered moot.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 8, and 13-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Hashiba et al. herein referred to as "Hashiba" (Publication No. 2001-149685).

Hashiba teaches a tank 33 (water tub) and drum 42 (rotary drum) that is illustrated in the representative drawing to be inclined within a horizontal drum washing machine. The washing machine includes an exhaust hole 95 and has an internal wall that is immediately below the inclined surface of the wash tank and drum. Hashiba

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teaches a circulation unit which circulates liquid collected in a dehumidifier 47 then sent to a blower 48, next to heater 49, travels through duct 50 (water circulation pipe), and is then returned to the drum 42. Also, Hashiba discloses a washing heater 73 (heater), as well as, a drain valve 82 (control valve) that is connected to a motor 88 by way of a valve rod 94 which in sum read on applicant's claim for a drain unit. The rotating axis 41c of the motor is inclined at a first angle which faces an inner surface of the door of the Hashiba washing machine.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4, 6-7, 9-12, and 17-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashiba as applied to claims above, and further in view of Mueller et al. herein referred to as "Mueller" (US Patent No. 5,507,053).

Hashiba teaches the claimed invention except fails to go into detail on how the recirculated liquid is specifically disseminated back into the wash tub, however, Mueller teaches a washing machine with a spray nozzle 78 connected to its recirculation system for ensuring the clothes are thoroughly wetted. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this Mueller spray nozzle feature to Hashiba's recirculation system because effective and thorough re-

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wetting of laundry during recirculation is known in the art for achieving optimal use of the washing liquid, saving money on supply resources, and rinsing/washing laundry therein efficiently to get very clean laundry.

The representative illustration provided by Hashiba shows an inner drum 42 within a tank 33 that may be formed such that the back-end of the drum (end closer to the shaft) embodies a smaller diameter than the opening of the drum 42; however, it is a bit unclear by the Hashiba drawings the exact shape of the inner drum 42. Mueller, however, illustrates in Figure 2 an inner rotating basket 36 that embodies a larger inlet diameter and decreases in diameter towards the traversal of the back part of the tub closest to the shaft; this reads on applicant's claims for "a sidewall part which is closed and extends between the rear part and the front part wherein an inner diameter of the sidewall part increases along a direction from the rear part to the front part to allow an internal surface of the sidewall part to be inclined". It would have been obvious to one of ordinary skill in the art at the time of the invention to use an inner tub with a decreasing diameter size to provide a stronger/more centered centrifugal force during rotation and also for aesthetic purposes-having a larger inlet opening allows the user an easier way to deposit and remove clothes from the machine. Choice in aesthetic designs was held to have been obvious. *St. Regis Paper Co. v. Beemis Co. Inc.* 193 USPQ 8, 11, (1977); *In re Harza* 124 USPQ 378 (CCPA 1960).

Finally, the Hashiba reference teaches the claimed invention except fails to go into detail regarding any potential detergent supply unit, and although it is at once envisaged that the washing machine of Hashiba has a water supplying unit, the Hashiba

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reference fails to specify in detail the feed lines for such an apparatus. However, the Mueller reference teaches a detergent dispenser 54 in connection with supply inlets 40, 42 having control valves 44, 46 as shown in Figure 8 which attach to the washing machine at the front part of the inlet door to respectively feed detergent and water to the tub. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the detergent dispenser and supply line features of Mueller in Hashiba because it is commonly known in the art to use these features in washing machines; washing machines are known to dispense controlled amounts of desired detergents during washing processes, as well as dispense controlled amounts of desired supply liquids during washing. Supply fluids and detergent are known in the art of washing machines to be used to fuel the machine and clean laundry therein properly.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Broker et al. (US Patent No. 6,553,594) teaches a washing machine with a control system for clothes washing which includes a heater system.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).



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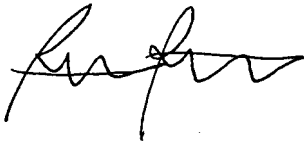
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita R. Patel whose telephone number is (571) 272-8701. The examiner can normally be reached on M-F: 8-5.

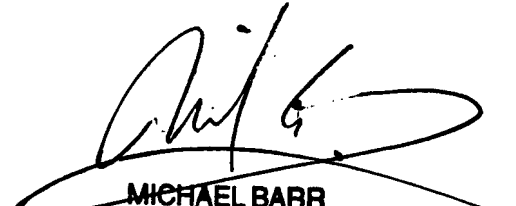
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



rrp



**MICHAEL BARR**  
SUPERVISORY PATENT EXAMINER